

Claims

I claim:

1. A method for communicating with a mobile device, the mobile device comprising a registered public land mobile network (RPLMN) and a public land mobile network list, the method comprising the steps of:
 - (a) determining if the RPLMN is detected, if not, executing the step (d);
 - (b) determining if a signal strength transmitted from the RPLMN is higher than a particular level, if not, executing the step (d);
 - (c) determining if the mobile device is a legitimate user of the RPLMN, if yes, executing the step (h), if not, executing the step (d);
 - (d) selecting a first public land mobile network (PLMN) from the public land mobile network list;
 - (e) determining if the mobile device is a legitimate user of the first PLMN, if yes, executing the step (h);
 - (f) receiving a signal of a second PLMN;
 - (g) determining if the mobile device is a legitimate user of the second PLMN, if not, executing the step (f); and
 - (h) selecting a base station to communicate.
2. The method of claim 1, wherein the step (h) comprises:
 - (i) determining if the mobile device comprises a base station list, if yes, executing the step (k), if not, executing the step (j);
 - (j) searching for a plurality of available base stations and storing in a base station list;
 - (k) selecting a base station from the base station list; and

- (l) communicating via the base station.
3. The method of claim 2, wherein the step (l) comprises:
- (m) determining if re-selecting a base station is needed in a particular time interval, if yes, executing the step (k).
4. The method of claim 1, wherein the mobile device is a mobile phone.
5. A method for communicating with a mobile device, the mobile device comprising a registered public land mobile network (RPLMN) and a public land mobile network list, the method comprising the steps of:
- (a) determining if the RPLMN is detected, if not, executing the step (d);
 - (b) determining if a signal strength transmitted from the RPLMN is higher than a particular level, if not, executing the step (d);
 - (c) determining if the mobile device is a legitimate user of the RPLMN, if yes, executing the step (h), if not, executing the step (d);
 - (d) selecting a first public land mobile network (PLMN) from the public land mobile network list;
 - (e) determining if the mobile device is a legitimate user of the first PLMN, if yes, executing the step (h);
 - (f) receiving a signal of a second PLMN;
 - (g) determining if the mobile device is a legitimate user of the second PLMN, if not, executing the step (f);
 - (h) determining if the mobile device comprises a base station list, if yes, executing the step (j), if not, executing the step (i);

- (i) searching for a plurality of available base stations and storing in a base station list;
 - (j) selecting a base station from the base station list; and
 - (k) communicating via the base station.
6. The method of claim 5, wherein the step (k) comprises:
- (l) determining if re-selecting a base station is needed in a particular time interval, if yes, executing the step (j).
7. The method of claim 5, wherein the mobile device is a mobile phone.
8. A method for selecting a base station with a mobile device, comprising the steps of:
- (a) determining if the mobile device comprises a base station list, if yes, executing the step (c), if not, executing the step (b);
 - (b) searching for a plurality of available base stations and storing in a base station list;
 - (c) selecting a base station from the base station list; and
 - (d) communicating via the base station.
9. The method of claim 8, wherein the step (d) comprises:
- (e) determining if re-selecting a base station is needed in a particular time interval, if yes, executing the step (c).
10. The method of claim 8, wherein the mobile device is a mobile phone.